In the Claims

Claims 3, 6-8, 11-12, and 14-32 are canceled.

Claims 33-47 are new.

Claims 1-2, 4-5, 9-10, 13 and 33-47 are pending and are listed below:

1. (Original) A reactive filtration method, comprising continuously regenerating a reactive filter media while simultaneously filtering contaminants from fluid flowing through the filter media.

2. (Previously Presented) The method of claim 1, wherein regenerating the reactive filter media comprises agitating a mixture of metal granules and the filter media.

3. (Canceled).

4. (Original) A reactive filtration method, comprising continuously regenerating a reactive filter media while simultaneously filtering contaminants from waste water flowing through the filter media.

5. (Previously Presented) The method of claim 4, wherein regenerating the reactive filter media comprises agitating a mixture of metal granules and the filter media.

6. – 8. (Canceled).

9. (Original) A reactive filtration method, comprising continuously regenerating an iron oxide coated sand bed while simultaneously filtering contaminants from waste water flowing through the sand bed.

10. (Previously Presented) The method of claim 9, wherein regenerating the sand bed comprises agitating a mixture of iron granules and sand.

11.-12. (Canceled).

13. (Original) A reactive filtration method, comprising passing waste water through a moving mixture of sand and metal granules.

14.-32. (Canceled).

33. (New) The method of claim 1, wherein regenerating the reactive filter media comprises agitating a mixture of the filter media and one or more of:

a metal salt reagent; and

an ionized metal reagent.

34. (New) The method of claim 4, wherein regenerating the reactive filter media comprises agitating a mixture of the filter media and one or more of:

a metal salt reagent; and,

an ionized metal reagent.

35. (New) The method of claim 9, wherein the continuously regenerating comprises regenerating reactive surfaces on the iron oxide coated sand bed to which contaminants can bond.

36. (New) The method of claim 9, wherein the filtering comprises filtering solid forms of the contaminants and wherein the continuously regenerating comprises regenerating reactive surfaces on the iron oxide coated sand bed to which dissolved contaminants can bond.

37. (New) The method of claim 36, further comprising removing at least a portion of the bonded and filtered contaminants from a vessel that defines the sand bed.

38. (New) The method of claim 37, wherein the removing further comprises removing the portion from a majority of the water.

39. (New) A method comprising continuously regenerating a reactive filter media within a vessel while simultaneously filtering contaminants from fluid flowing through the filter media effective to remove the contaminants from the vessel and from a majority of the fluid.

40. (New) A method comprising filtering contaminants from fluid flowing through a first portion of a reactive filter media, while agitating a second

portion of the reactive filter media to continuously regenerate the reactive filter media.

41. (New) A method comprising continuously regenerating a filter media by abrading the filter media sufficient to allow surface sites on the filter media to be available for reacting with a chemical reagent, while simultaneously filtering contaminants from fluid flowing through the filter media.

42. (New) The method of claim 41, wherein the abrading scours the chemical reagent and compounds containing the reagent and the contaminants from the filter media.

43. (New) The method of claim 41, further comprising introducing the chemical reagent into the fluid.

44. (New) A method comprising:

flowing contaminated water through a filter chamber of reactive filter media to generate a mixture;

agitating the mixture in a separator to separate contaminants from the mixture and to regenerate the reactive filter media; and,

recycling the regenerated reactive filter media into the filter chamber.

45. (New) The method of claim 44, wherein the agitating exposes surfaces of the reactive filter media and wherein the water contains a reagent that bonds to the exposed surfaces in the filter chamber.

46. (New) A method comprising:

physically capturing contaminants from water with a filter media;

chemically capturing contaminants from the water with the filter media;

separating the captured contaminants from the filter media; and

recycling the separated filter media to capture additional contaminants.

47. (New) The method of claim 46, wherein the separating further comprises separating the captured contaminants from a majority of the water.